## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012149

		1 1017012	004/012149		
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C09K11/59					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl <sup>7</sup> C09K11/59					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Jitsuyo Shinan Koho 1940-1992 Toroku Jitsuyo Shinan Koho 1994-1996 Kokai Jitsuyo Shinan Koho 1971-1992 Jitsuyo Shinan Toroku Koho 1996-2004					
Electronic data b	ase consulted during the international search (name of JOIS)	data base and, where practicable, search ter	rms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Х	EP 1193306 A2 (Sumitomo Chem 03 April, 2002 (03.04.02), & JP 2002-332481 A & US & CN 1345908 A	ical Co., Ltd.), 2002-38861 A1	1-7		
х	JP 2003-132803 A (Hitachi, L 09 May, 2003 (09.05.03), & CN 1417831 A & US	td.), 2003-85853 Al	1-7		
×	JP 2003-142004 A (Hitachi, L 16 May, 2003 (16.05.03), & CN 1417831 A & US	td.), 2003-85853 A1	1-7		
x	JP 2003-213254 A (Tosoh Corp 30 July, 2003 (30.07.03), (Family: none)	.);	1-7		
Further documents are listed in the continuation of Box C. See patent family annex.					
A Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or date and not in conflict with the application but cited to under the principle or theory underlying the invention		tion but cited to understand			
"E" earlier application or patent but published on or after the international		"X" document of particular relevance; the cl	aimed invention cannot be		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered novel or cannot be considered with the document is taken alone "Y" document of particular relevance; the cl	aimed invention cannot be		
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive s combined with one or more other such of	locuments, such combination		
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art  "&" document member of the same patent family			
Date of the actual completion of the international search 11 November, 2004 (11.11.04)		Date of mailing of the international search report 07 December, 2004 (07.12.04)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.			

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## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/012149

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	JP 2003-27054 A (Kasei Optonix, Ltd.), 29 January, 2003 (29.01.03), (Family: none)	1-7		
X	EP 1199757 A2 (Philips Corporate Intellectual Property Gmbh), 24 April, 2002 (24.04.02), 5 DE 10051242 A1 5 CN 1349262 A 6 US 2002-105266 A1 6 JP 2002-223008 A	1-7		
P, X	US 2004-27047 A1 (Kasei Optonix, Ltd.), 12 February, 2004 (12.02.04), & JP 2004-131677 A2	1-7		
P,X	JP 2003-261870 A (Tosoh Corp.), 19 September, 2003 (19.09.03), (Family: none)	1-7		
P, X	JP 2004-18679 A (Konica Minolta Holdings Inc.), 22 January, 2004 (22.01.04), (Family: none)	1-7		
P,X	JP 2003-261868 A (National Institute of Advanced Industrial Science and Technology), 19 September, 2003 (19.09.03), (Family: none)	1-7		
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Claims 1-7 in this application describe a phosphor defined by a desired property that a value calculated from a peak amplitude derived from  $\mathrm{Eu}^{2+}$  and a peak amplitude derived from  $\mathrm{Eu}^{3+}$  is at least 40% for a pattern obtained by the first-order-differentiation of an X-ray absorption end vicinity structure spectrum.

However, since this calculation expression is not generally used for specifying a phosphor and therefore the scope of a phosphor represented by such a calculation expression cannot be specified even allowing for a technical common sense at the time of the application, these claims fail to fulfill the requirement of clearness and conciseness stipulated in PCT Article 6.

In addition, various types of phosphors included in this calculation expression are assumed, however, only two types of phosphors are disclosed in the descriptions of this application; therefore only a limited number of phosphors are disclosed in the description within the meaning of PCT Article 5 and are not supported within the meaning of PCT Article 6.

Accordingly, this search has been carried out mainly on a specific phosphor specifically cited in the descriptions.